

Set Name Query

side by side

*DB=USPT; PLUR=YES; OP=ADJ*L11 4054710L10 4054710[pn]*DB=USPT,PGPB,DWPI; PLUR=YES; OP=ADJ*L9 18 and 15 and 12 and 11L8 flame retardant same materialL7 11 and 16L6 12 and 13 and 14 and 15L5 polyimide or pps or pet or pvf or pvdpL4 film same layerL3 nonwoven or non-woven or unwoven or un-wovenL2 laminateL1 insulation same element**Hit Count Set Name**

result set

37 L111 L1023 L912468 L848 L73416 L6769222 L5438794 L496103 L3224689 L241512 L1

END OF SEARCH HISTORY

=> FILE STNGUIDE
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.84	0.84

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 13:08:44 ON 17 SEP 2003
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Sep 12, 2003 (20030912/UP).

=> FILE CAPLUS
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.06	0.90

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:09:03 ON 17 SEP 2003
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FILE COVERS 1907 - 17 Sep 2003 VOL 139 ISS 12
FILE LAST UPDATED: 16 Sep 2003 (20030916/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S INSULATION(L) (ELEMENT OR ARTICLE OR LAMINATE)

51997 INSULATION
1339 INSULATIONS
52416 INSULATION
(INSULATION OR INSULATIONS)

572824 ELEMENT
563124 ELEMENTS
965012 ELEMENT
(ELEMENT OR ELEMENTS)

82260 ARTICLE
69285 ARTICLES
139527 ARTICLE
(ARTICLE OR ARTICLES)

78116 LAMINATE
58082 LAMINATES
96280 LAMINATE
(LAMINATE OR LAMINATES)

L1 4026 INSULATION(L) (ELEMENT OR ARTICLE OR LAMINATE)

=> S NONWOVEN OR NON-WOVEN OR UN-WOVEN OR UNWOVEN

27356 NONWOVEN
2634 NONWOVENS
27583 NONWOVEN
(NONWOVEN OR NONWOVENS)

613979 NON
 32 NONS
 614004 NON
 (NON OR NONS)
 19127 WOVEN
 96 WOVENS
 19200 WOVEN
 (WOVEN OR WOVENS)
 2173 NON-WOVEN
 (NON (W) WOVEN)
 49437 UN
 1756 UNS
 51187 UN
 (UN OR UNS)
 19127 WOVEN
 96 WOVENS
 19200 WOVEN
 (WOVEN OR WOVENS)
 10 UN-WOVEN
 (UN (W) WOVEN)
 992 UNWOVEN
 L2 29783 NONWOVEN OR NON-WOVEN OR UN-WOVEN OR UNWOVEN

=> S FILM(L) LAYER
 787583 FILM
 649186 FILMS
 1021239 FILM
 (FILM OR FILMS)
 1044017 LAYER
 468595 LAYERS
 1282121 LAYER
 (LAYER OR LAYERS)
 L3 222619 FILM(L) LAYER

=> S FLAME(L) RETARDANT (L) MATERIAL
 118271 FLAME
 22529 FLAMES
 121886 FLAME
 (FLAME OR FLAMES)
 23987 RETARDANT
 10936 RETARDANTS
 27826 RETARDANT
 (RETARDANT OR RETARDANTS)
 1204362 MATERIAL
 1632648 MATERIALS
 2442115 MATERIAL
 (MATERIAL OR MATERIALS)
 L4 4837 FLAME (L) RETARDANT (L) MATERIAL

=> D HIS

(FILE 'HOME' ENTERED AT 13:06:32 ON 17 SEP 2003)

FILE 'STNGUIDE' ENTERED AT 13:08:44 ON 17 SEP 2003

FILE 'CAPLUS' ENTERED AT 13:09:03 ON 17 SEP 2003

L1 4026 S INSULATION(L) (ELEMENT OR ARTICLE OR LAMINATE)
 L2 29783 S NONWOVEN OR NON-WOVEN OR UN-WOVEN OR UNWOVEN
 L3 222619 S FILM(L) LAYER
 L4 4837 S FLAME (L) RETARDANT (L) MATERIAL

=> FILE STNGUIDE
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
32.92	33.82

FILE 'STNGUIDE' ENTERED AT 13:19:18 ON 17 SEP 2003
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=> FILE CAPLUS		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.54	34.36

FILE 'CAPLUS' ENTERED AT 13:24:45 ON 17 SEP 2003
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FILE COVERS 1907 - 17 Sep 2003 VOL 139 ISS 12
FILE LAST UPDATED: 16 Sep 2003 (20030916/ED)

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=> D HIS

(FILE 'HOME' ENTERED AT 13:06:32 ON 17 SEP 2003)

FILE 'STNGUIDE' ENTERED AT 13:08:44 ON 17 SEP 2003

FILE 'CAPLUS' ENTERED AT 13:09:03 ON 17 SEP 2003

L1	4026 S INSULATION(L) (ELEMENT OR ARTICLE OR LAMINATE)
L2	29783 S NONWOVEN OR NON-WOVEN OR UN-WOVEN OR UNWOVEN
L3	222619 S FILM(L) LAYER
L4	4837 S FLAME(L) RETARDANT(L) MATERIAL

FILE 'STNGUIDE' ENTERED AT 13:19:18 ON 17 SEP 2003

FILE 'CAPLUS' ENTERED AT 13:24:45 ON 17 SEP 2003

=> S L1 AND L2 AND L3 AND L4
L5 0 L1 AND L2 AND L3 AND L4

=> S INSULAT?
L6 282761 INSULAT?

=> S NON-WOVEN OR (UN-WOVEN OR UNWOVEN)
613979 NON
32 NONS
614004 NON
(NON OR NONS)
19127 WOVEN

96 WOVENS
 19200 WOVEN
 (WOVEN OR WOVENS)
 2173 NON-WOVEN
 (NON(W) WOVEN)
 49437 UN
 1756 UNS
 51187 UN
 (UN OR UNS)
 19127 WOVEN
 96 WOVENS
 19200 WOVEN
 (WOVEN OR WOVENS)
 10 UN-WOVEN
 (UN(W) WOVEN)
 992 UNWOVEN
 L7 3165 NON-WOVEN OR (UN-WOVEN OR UNWOVEN)

=> S FLAME(L) RETARD?
 118271 FLAME
 22529 FLAMES
 121886 FLAME
 (FLAME OR FLAMES)
 132592 RETARD?
 L8 19942 FLAME(L) RETARD?

=> S L6 AND L7 AND L8
 L9 2 L6 AND L7 AND L8

=> D HIS

(FILE 'HOME' ENTERED AT 13:06:32 ON 17 SEP 2003)

FILE 'STNGUIDE' ENTERED AT 13:08:44 ON 17 SEP 2003

FILE 'CAPLUS' ENTERED AT 13:09:03 ON 17 SEP 2003

L1 4026 S INSULATION(L) (ELEMENT OR ARTICLE OR LAMINATE)
 L2 29783 S NONWOVEN OR NON-WOVEN OR UN-WOVEN OR UNWOVEN
 L3 222619 S FILM(L) LAYER
 L4 4837 S FLAME(L) RETARDANT (L) MATERIAL

FILE 'STNGUIDE' ENTERED AT 13:19:18 ON 17 SEP 2003

FILE 'CAPLUS' ENTERED AT 13:24:45 ON 17 SEP 2003

L5 0 S L1 AND L2 AND L3 AND L4
 L6 282761 S INSULAT?
 L7 3165 S NON-WOVEN OR (UN-WOVEN OR UNWOVEN)
 L8 19942 S FLAME(L) RETARD?
 L9 2 S L6 AND L7 AND L8

=> FILE STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.95	52.31

FILE 'STNGUIDE' ENTERED AT 13:30:32 ON 17 SEP 2003

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 LAST RELOADED: Sep 12, 2003 (20030912/UP).

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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	ENTRY	SESSION
FULL ESTIMATED COST	0.66	52.97

STN INTERNATIONAL LOGOFF AT 13:37:24 ON 17 SEP 2003

=> FILE CAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'CAPLUS' ENTERED AT 13:50:16 ON 17 SEP 2003

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FILE COVERS 1907 - 17 Sep 2003 VOL 139 ISS 12

FILE LAST UPDATED: 16 Sep 2003 (20030916/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> D HIS

(FILE 'HOME' ENTERED AT 13:49:52 ON 17 SEP 2003)

FILE 'CAPLUS' ENTERED AT 13:50:16 ON 17 SEP 2003

=> s insulat?

L1 282761 INSULAT?

=> s non-woven or (unwoven or un-woven)

613979 NON

32 NONS

614004 NON

(NON OR NONS)

19127 WOVEN

96 WOSENS

19200 WOVEN

(WOVEN OR WOSENS)

2173 NON-WOVEN

(NON (W) WOVEN)

992 UNWOVEN

49437 UN

1756 UNS

51187 UN

(UN OR UNS)

19127 WOVEN

96 WOSENS

19200 WOVEN

(WOVEN OR WOSENS)

10 UN-WOVEN

(UN (W) WOVEN)

L2 3165 NON-WOVEN OR (UNWOVEN OR UN-WOVEN)

=> s pet/cn

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L4 62953 L3

=> s pvf/cn

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L6 2226 L5

=> s pvdf/cn

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L8 12772 L7

=> s pps/cn

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L10 6553 L9

=> s polyimide/cn

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L12 0 L11

=> s polyimide

45455 POLYIMIDE

50690 POLYIMIDES

L13 56092 POLYIMIDE
(POLYIMIDE OR POLYIMIDES)

=> d his

(FILE 'HOME' ENTERED AT 13:49:52 ON 17 SEP 2003)

FILE 'CAPLUS' ENTERED AT 13:50:16 ON 17 SEP 2003

L1 282761 S INSULAT?

L2 3165 S NON-WOVEN OR (UNWOVEN OR UN-WOVEN)
S PET/CN

FILE 'REGISTRY' ENTERED AT 13:52:47 ON 17 SEP 2003

L3 3 S PET/CN

FILE 'CAPLUS' ENTERED AT 13:52:48 ON 17 SEP 2003

L4 62953 S L3
S PVF/CN

FILE 'REGISTRY' ENTERED AT 13:53:46 ON 17 SEP 2003

L5 1 S PVF/CN

FILE 'CAPLUS' ENTERED AT 13:53:46 ON 17 SEP 2003

L6 2226 S L5
S PVDF/CN

FILE 'REGISTRY' ENTERED AT 13:54:02 ON 17 SEP 2003

L7 1 S PVDF/CN

FILE 'CAPLUS' ENTERED AT 13:54:02 ON 17 SEP 2003

L8 12772 S L7
S PPS/CN

FILE 'REGISTRY' ENTERED AT 13:54:21 ON 17 SEP 2003

L9 8 S PPS/CN

FILE 'CAPLUS' ENTERED AT 13:54:21 ON 17 SEP 2003

L10 6553 S L9
S POLYIMIDE/CN

FILE 'REGISTRY' ENTERED AT 13:54:48 ON 17 SEP 2003

L11 0 S POLYIMIDE/CN

FILE 'CAPLUS' ENTERED AT 13:54:49 ON 17 SEP 2003

L12 0 S L11
L13 56092 S POLYIMIDE

=> s l4 or l6 or l8 or l10 or l13

L14 135208 L4 OR L6 OR L8 OR L10 OR L13

=> s l1 and l2 and l14

L15 11 L1 AND L2 AND L14

=> d 1-11 bib,abs

L15 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:573773 CAPLUS

DN 137:133013

TI Printed circuit boards

IN Kawamoto, Eiichi

PA Matsushita Electric Industrial Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002217511	A2	20020802	JP 2001-7340	20010116
PRAI	JP 2001-7340		20010116		

AB Sheet substrates from resin-impregnated org. **unwoven** cloths are covered with resinous **insulator** layers on 1 side, where through holes formed in the substrates are filled with elec. conductive resin compns. and elec. connect interconnections on the both sides of the substrates. Elec. connection of inner via holes is well done.

L15 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:84056 CAPLUS

DN 136:143393

TI Fine or superfine metal wire for use in conductive fibrous material

IN Duerr, Herbert; Bucher, Kurt; Zemp, Benno

PA Elektro-Feindraht A.-G., Switz.

SO Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1176610	A1	20020130	EP 2001-810599	20010619

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

PRAI CH 2000-14 A 20000725

AB The fine or superfine metal wire has a protecting coating based on org. compd. having elec. cond., e.g., elec.-conductive polymer, esp. polyaniline, polypyrrol, or polythiophen. The protecting org. coating may be made of **insulating** compd. (e.g., polyurethane, polyesterimide, polyamideimide, or **polyimide**) contg. elec.-conductive filler such as graphite, soot, Cu, or Ag particles. The metal wire is manufd. from Cu, brass, or Al. The woven or **non-woven** metal wire fabric is manufd. in the form of warp thread or weft thread. Such textile is suitable as screens in mobile phones and other devices to protect people from elec.-magnetic fields esp. high-frequency fields.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:481387 CAPLUS

DN 136:119772

TI Charge transport and EMI shielding of fabric complexes coated with conducting polypyrrole

AU Lee, D. E.; Lee, C. Y.; Joo, J.; Kim, M. S.; Lee, J. Y.; Jeong, S. H.; Byun, S. W.

CS Dep. Physics, Korea Univ., Seoul, 136-701, S. Korea

SO Sae Mulli (2001), 42(4), 207-211

CODEN: NWPYA4; ISSN: 0374-4914

PB Korean Physical Society

DT Journal

LA Korean

AB **Insulating** poly(ethylene terephthalate) (PET) woven fabric and polyethylene (PE) **non-woven** fabric were chem. coated with polypyrrole (PPy) doped with naphthalene sulfonic acid (NSA). PPy-NSA/fabric sample was electrochem. coated with PPy doped with anthraquinone-2-sulfonic acid (AQSA). The scanning electron microscope (SEM) images of these samples show that PPy was homogeneously coated on the surface of the PET or the PE fabric. We obsd. that conducting PPy connected the fiber of the fabric better as the no. of coating times increased. The temp. dependence of the DC conductivities of the PPy-NSA/fabric and the PPy-AQSA/PPy-NSA/fabric follow 3-dimensional

variable range hopping model and power law, resp. For electromagnetic interference (EMI) shielding materials, coatings of AgPd and Ag were used for the fabrics coated with conducting PPy. The EMI shielding efficiency of conducting fabric complexes was measured by using the ASTM 4935-89 method. The EMI shielding efficiency of Ag|PPy-AQSA/AgPd/PE|Ag was measured to be .apprx. 80 dB, implying a potential for military uses.

L15 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2000:677532 CAPLUS

DN 133:270585

TI Heat **insulating** composite sheets for heat **insulating** building components

IN Oka, Motohiro; Nagata, Ryohei; Nakamura, Runa; Haoto, Daisaku; Sato, Koji; Takeshita, Kiyokazu

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000265586	A2	20000926	JP 1999-73200	19990318
PRAI	JP 1999-73200		19990318		

AB The heat **insulating** composite sheets are obtained by laminating a moisture-absorbing-and-desorbing layer on one side of heat **insulating** sheets, which have low moisture-permeable layers laminated on both sides. The heat **insulating** sheets are selected from foamed polymer sheet, hollow grain-dispersed polymer sheet, hollow fiber-dispersed polymer sheet, fibrous sheet such as textile, **unwoven** fabric, paper, felt, etc. The heat **insulating** composite sheets are decorated by coloring printing, embossing, or wiping coating.

L15 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2000:433287 CAPLUS

DN 133:32714

TI Composite polymer electrolytes for alkali metal electrochemical devices which contain a glass fiber net

IN Kejha, Joseph B.

PA Lithium Technology Corporation, USA

SO U.S., 5 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6080511	A	20000627	US 1998-96835	19980612
	US 6326105	B1	20011204	US 2000-596885	20000620
PRAI	US 1998-96835	A2	19980612		

AB Polymer electrolyte composites for alkali metal electrochem. devices are formed by coating an inert, lightwt., elec. **insulating**, woven or **non-woven** glass fiber net with a liq., ion-conductive polymer, and curing the polymer to form a solid state or semi-solid state electrolyte composite.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2000:402114 CAPLUS

DN 133:44652

TI Multilayered sound and thermal **insulation** element containing sandwiched structured **polyimide** foam layer

IN Arndt, Rainer; Czerny, Hans-Rudolf

PA Illbruck G.m.b.H., Germany
SO PCT Int. Appl., 22 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000034943	A1	20000615	WO 1999-EP9509	19991206
	W: CA, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2319355	AA	20000615	CA 1999-2319355	19991206
	EP 1053543	A1	20001122	EP 1999-967927	19991206
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
PRAI	DE 1998-19856377	A	19981207		
	WO 1999-EP9509	W	19991206		

AB A multilayer **insulation** element comprises an upper and lower **non-woven** material layers located above and below one or more cellular material layers. The cellular material layers consist of uneven, three-dimensional structured **polyimide** foams, such that the entire article can be used as sound absorption material, sound **insulators**, and heat **insulators**, with low liq. water formation, high temp. gradients, low surface wt., and good handling as fitting elements. The **polyimide** foam layers are typically arranged in a zig-zag fashion.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1998:479803 CAPLUS

DN 129:149894

TI Heat-resistant electrically **insulating** film composite materials, their manufacture, and their uses

IN Sakamoto, Atsushi; Amishima, Kenji

PA Toray Industries, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10193488	A2	19980728	JP 1997-2865	19970110
PRAI	JP 1997-2865		19970110		

AB Title composite materials (dielec. const. 1.2-2.8; apparent d. 0.3-1.3 g/cm³) consisting of a porous substrate and a film on .gtoreq.1 side of the substrate, are manufd. by either (a) laminating films with both sides of the substrate using adhesives and uni- or biaxially stretching the laminate or (b) laminating a film with one side of the substrate using adhesives, uni- or biaxially stretching the laminate, further laminating a film with the other side of the substrate using adhesives, and optionally uni- or biaxially stretching the laminate. The composite materials are used for elec. **insulating** materials showing heat durability at 130.degree. .gtoreq.20,000 h, cards having an information recording layer on the film side, and cards including semiconductor memory cells. Thus, a PET **non-woven** fabric was laminated with PET films (thickness 50 .mu.m) on both sides to give a laminate, which was biaxially oriented and heat treated at 200.degree.. The obtained composite material showed dielec. const. 1.9 at 23.degree. and relative humidity 65%, apparent d. 0.7 g/cm³, and dielec. breakdown voltage (JIS C 2110) 23 kV.

L15 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1998:1263 CAPLUS

DN 128:62820
 TI Fibrous, **non-woven** polymeric **insulation**
 IN Jackson, Fred Lee; Mchugh, Kevin Patrick; Robertson, John Stuart; Rumiesz, Joseph, Jr.
 PA Schuller International, Inc., USA
 SO U.S., 7 pp., Cont.-in-part of U.S. 5,437,922.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5698298	A	19971216	US 1995-423063	19950424
	US 5437922	A	19950801	US 1994-237814	19940504
PRAI	US 1994-237814		19940504		

AB A thermal **insulation** comprises synthetic polymeric resin microfibers, staple fibers, and bonding fibers which are randomly oriented and randomly intermingled in a single layer. The microfibers comprise 0-95% virgin synthetic polymeric resin and 5-100% recycled poly(ethylene terephthalate). In one embodiment the microfibers have av. diam. 1-10 .mu.m and comprise 5-80% of the **insulation**; the staple fibers have av. diam. 10-30 .mu.m and comprise 5-90% of the **insulation**; and the bonding fibers have av. diam. 0.9-15 deniers and comprise 5-95% of the **insulation**. The bonding fibers have thermoplastic surfaces with a lower temp. softening point than the microfibers and staple fibers and bond the fibers together to form the **insulation** material.

L15 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1997:798351 CAPLUS
 DN 128:56198
 TI Preparation of printed circuit boards
 IN Nakatani, Seiichi
 PA Matsushita Electric Industrial Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09321399	A2	19971212	JP 1996-134023	19960529
	JP 3197213	B2	20010813		
	US 5888627	A	19990330	US 1997-865055	19970529
PRAI	JP 1996-134023	A	19960529		

AB Highly reliable printed circuit boards are prepd., in which substrates and metal interconnections are firmly attached, elec.-conductive pastes filling contact holes and metal interconnections are connected with elec. and mech. stability, and which are free of warps and twists. Resinous layers contg. inorg. **insulator** fillers are formed on both sides of **unwoven** org. cloths to form sheets substrates, through holes are formed in the substrates and filled with elec. conductive resin compns., and electrode layers connected with the hole conductors are formed on the sheets.

L15 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1995:907845 CAPLUS
 DN 123:289170
 TI Composite thin film **insulator**, manufacturing method thereof, and electric rotating machines using the composite thin film **insulator**
 IN Koide, Toshiyuki; Kano, Ikushi; Maruyama, Syoichi
 PA Hitachi, Ltd., Japan
 SO Eur. Pat. Appl., 8 pp.
 CODEN: EPXXDW
 DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 672521	A1	19950920	EP 1995-301784	19950317
	EP 672521	B1	19990526		
	R: AT, CH, LI				
	AT 180436	E	19990615	AT 1995-301784	19950317
PRAI	JP 1994-48243		19940318		

AB The present invention is aimed at improving adhering property of a thin film **insulator**, which is used for **insulation** among layers and to the earth of elec. app. such as induction motor coils, between mutual thin film **insulators** and between the thin film **insulator** and a conductive body. The thin film **insulator** relating to the present invention is composed of a polyester film, polyester **unwoven** cloth sheets, a reconstituted mica paper, and epoxy resin, wherein the mica paper is adhered on a surface of a laminated plastic film-**unwoven** cloth sheet, which is formed previously by adhering the polyester **unwoven** cloth sheet to each of upper and lower surfaces of the polyester plastic film without any binder by heating and melting, by impregnating the epoxy resin into the polyester **unwoven** cloth sheet and the mica paper and heating for curing.

L15 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2003 ACS on STN

AN 1965:463847 CAPLUS

DN 63:63847

OREF 63:11776c-e

TI Aqueous polymeric impregnating compositions

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PA E. I. du Pont de Nemours & Co.

SO 6 pp.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3202541		19650824	US	19600831
AB	Fabric or fibers are (1) impregnated with a compn. contg. a H2O-insol., polymeric impregnant and an aq. soln. of ethylenically-unsatd. H2O-sol. gelling agent, (2) heated to <100.degree. to polymerize the gelling agent, and (3) dried. Thus, a nonwoven 1/8-in.-thick mat of poly(tetrafluoroethylene) (I) fibers is immersed in a mixt. composed of a I aq. dispersion (60% finely divided I, 6% of the reaction product of 12 moles ethylene oxide and 1 mole octylphenol, and H2O) 222, gelling agent (90-7% acrylamide and 3-10% N,N'-methylenebisacrylamide (II)) 10, .beta.-(dimethylamino)propionitrile 0.4, K3Fe(CN)6 0.015, and (NH4)2S2O8 0.5 part. The impregnated mat is heated for 5 min. at 90.degree. and then dried at 120.degree.. Similarly, mats of glass yarn, poly(ethylene terephthalate) fibers, poly(hexamethylene adipamide) fibers, regenerated cellulose stable fibers, and filter paper are treated with aq. dispersions including terpolymers of acrylonitrile, Bu acrylate, and methacrylic acid; 2-chloro-1,3-butadiene; copolymers of butadiene and acrylonitrile; butyl rubber; poly(vinyl alc.); or TiO2 pigment and Na hexamethylphosphate and gelling agents, including methacrylamide and N,N'-methylenebismethacrylamide (III); NH4 acrylate or NH4 methacrylate and I; Na acrylate or K methacrylate and I; acrylic or methacrylic acid and ethylene glycol dimethacrylate; Na acrylate and ethylene glycol diacrylate; or N-methylolacrylamide and II. All give uniformly impregnated products used for insulation , padding, leather replacement.				

=> log y

COST IN U.S. DOLLARS

SINCE FILE

ENTRY

TOTAL

SESSION

FULL ESTIMATED COST	31.62	69.02
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-7.16	-7.16

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